Eskom	Strategy	Engineering

Title: **Tender Technical Evaluation Strategy for Appointment of Approved Professional Person for Feasibility study and inspections of Kendal Power Station Dams**

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1. INTRODUCTION

Kendal Power Station is required to conduct statutory dam safety inspections in compliance with the Department of Water and Sanitation (DWS) and Section 123(1) of the National Water Act (Act 36 of 1998). This includes periodic dam safety evaluations, conducted by an Approved Professional Person (APP), at prescribed intervals depending on the dam hazard classification.

The station was designed and constructed prior to the promulgation of Government Notice Regulation 704 (GN 704), which introduced requirements to prevent or minimise groundwater contamination, including the lining of pollution control dams. As the majority of the dams at Kendal are currently unlined, there is a need to assess and implement appropriate measures to achieve regulatory compliance.

Kendal operates an integrated water management system comprising the Dirty Water Dam, Emergency Dam, Clean Water Dam, Coal Stockyard Dam, and Maturation Dam. These facilities are used to contain polluted water, manage stormwater, and prevent environmental discharge, with controlled reuse of water for operational purposes. However, the current condition and configuration of these dams, together with the absence of lining in key areas, present potential risks related to seepage, structural integrity, and regulatory non-compliance.

This project therefore combines the statutory dam safety inspections with a feasibility assessment for dam lining and related interventions. The objective is to evaluate the structural condition, compliance status, and environmental performance of the dams, while identifying technically and financially viable solutions to ensure long-term compliance, operational efficiency, and risk mitigation.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope of this document is to capture the technical tender evaluation strategy for the appointment of Professional Services for Dam Lining Feasibility study and Dam safety Inspection at Kendal Power Station. The scope for the professional services is as described in the Scope of Work.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This document applies to the Tender Evaluation Team for the Scope of works for the Appointment of Professional Services for Dam Lining at Kendal Power Station.

2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

[1] 240-48929482: Tender Technical Evaluation Procedure.

2.2.2 Informative

[2] Scope of Works for Appointment of Professional Services for Dam Lining

2.3 DEFINITIONS

2.3.1 Classification

Controlled Disclosure: Controlled Disclosure to external parties (either enforced by law, or discretionary)

2.4 ABBREVIATIONS

Abbreviation	Description
ECSA	Engineering Council of South Africa
LDE	Lead Discipline Engineer
PS	Power Station
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure.

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

None

3. TENDER TECHNCIAL EVALUTION STRATEGY

3.1 TECHNICAL EVALUATION METHOD

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications. Tenderers need to have a weighted score of 75% overall or more to technically qualify for further evaluation.

The technical criteria and weighting is broken down as follows:

a) Civil Engineering: 100%

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements. A weighted score card approach will be used to evaluate the tender submission against the specifications and Employer's requirements.

The scoring method will be as follows:

SCORE	PERCENTAGE	DESCRIPTION
5	100	**COMPLIANT** • Meet technical requirement(s) AND; • No foreseen technical risk(s) in meeting technical requirements.
4	80	**COMPLIANT WITH ASSOCIATED QUALIFICATIONS** • Meet technical requirement(s) with; • Acceptable technical risk(s) AND/OR; • Acceptable exceptions AND/OR; • Acceptable conditions.
2	40	**NON-COMPLIANT** • Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR; • Unacceptable exceptions AND/OR; • Unacceptable conditions.
0	0	**TOTALLY DEFICIENT OR NON-RESPONSIVE**

The evaluation scores will be weighted as follows according to disciplines:

Engineering (100%)	
Civil Engineering	100%
TOTAL (100%)	
Overall minimum threshold for qualification (75%)	

3.2 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

3.3 TET MEMBERS

Table 1: Core TET Members

TET number: Section to be evaluated	TET Member Name	Designation
TET 1: Civil Engineering	Kellie Kwinika	Civil Engineer
TET 2: Civil Engineering	Maxwell Makhanya	Civil Technologist

3.4 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.1	Designs should be performed and approved by Engineering Council of South Africa (ECSA) professional registered Engineer. The engineer must also be a APP (Approved Professional Person) The tenderer submit CVs of key technical personnel as well as their professional registration with the Engineering Council of South Africa (ECSA) and APP (Approved Professional Person) Registration Civil: Professional Engineer (Pr. Eng.) or Professional technologist (Pr. Tech.)	List of Tender Technical Returnables	This is to ensure that the tenderer has skills capability to execute the works, as well as assume accountability for the works, and can be held legally liable for the designs.

3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	**Civil Engineering**			**100**	
	1.1	**An organogram structure:** An organogram structure to be submitted covering the Key project team names, Qualifications, years of experience and roles in the project. Valid certified qualifications and CVs must be attached: Key Resource Requirements: a) Demonstrate that the proposed key personnel have worked on similar projects. CVs for key personnel to be used on this project to be submitted. b) Demonstrate that each of the proposed key resources have the following experience: 1. Professional Civil Engineer/Technologist: BEng/BSc or BTech in Civil Engineering and ECSA certificate with APP(Approved professional person) 2. Registered Professional Land Surveyor 3. Geohydrologist	Scope of Work List of Technical Tender Returnables Item 1.		20

		• All Three professional in the structure=5 • Two (2) of the three (4) professionals in the structure = 4 • One (1) of the three (3) professionals in the structure = 2 • None of the three (3) professionals in the structure = 0			
	1.2	**Relevant experience (track record) – Dams Design.** 1. Project name 2. Description of work performed 3. Project cost (only for scope performed) 4. Project start and end date The tenderer submits a list of traceable references which adequately proves that the tenderer has at least completed two (2) contracts successfully of similar scope in the last ten (10) years. Include Name, designation and contact number of reference person • More than two (2) dam lining design/dam safety inspection contracts successfully completed of similar scope =5 • Two (2) dam lining design/dam safety inspection contracts successfully completed of similar scope = 4 • One (1) dam lining design/dam safety	As per item 2 of the List of Technical Tender Returnables.		30

		inspection contract successfully completed of similar scope = 2 • No relevant dam design experience = 0			
	1.3	**Relevant experience Environmental Authorisation:** 1. Project name 2. Description of work performed 3. Project cost (only for scope performed) 4. Project start and end date The tenderer submits a list of traceable references which adequately proves that the tenderer has at least completed two (2) environmental authorisations successfully of similar scope in the last ten (10) years. • More than two (2) Environmental Authorisation contracts successfully completed of similar scope = 5 • Two (2) Environmental Authorisation contracts successfully completed of similar scope = 4 • One (1) Environmental Authorisation contract successfully completed of similar scope = 2 • No relevant Environmental Authorisation experience = 0			10

	1.4	**Project execution Plan:** Proposal for scope of works indicates clearly the scope to be undertaken, compliance to required standards, guidelines, regulations & legislature. As a minimum the following should be included on the plan : a) Feasibility studies b) Dam safety inspection c) Geotechnical Investigation d) Specialist studies e) Tools to be used to execute the services • Proposal details fully how scope will be met and provides comprehensive methodology of approach =5 • Proposal describes how scope will be met and includes minor details = 4; • Proposal does not contain methodology of approach but contains high level descriptions of how construction will be conducted OR Technical proposal reiterates scope of works = 2 • No submission made = 0	List of Technical Tender Returnables Item 3.		20
	1.5	**Professional Indemnity insurance**	List of Technical Tender Returnables Item 2.		10

		• Professional Indemnity insurance of R5million and above=5 • Professional indemnity of less than R5million =0			
	1.6	**Project programme** Level 3 programme in Microsoft Projects and submitted in electronic MPS format together with a PDF copy. Programme includes the following as per the scope of work: a) Milestones key dates clearly showing for Feasibility studies, Dam safety inspection, Geotechnical Investigation, Specialist studies, as a minimum. b) Programme duration indicates that it can be completed within the contract key dates supplied. • MS Project programme outlining 90-100% activities and milestones as per scope of work =5 • MS Project programme outlining 80- 90% of the activities and milestones as per scope of work =4 • MS Project programme outlining less than			10

		80% of the activities and milestones as per scope of work = 2 • No programme submitted =0			

3.6 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2
1.1	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**
1.1	X	X
1.2	X	X
1.3	X	X
1.4	X	X
1.5	X	X
1.6	X	X

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	**N/A**

Table 6: Unacceptable Technical Risks

Risk	Description
1.	**N/A**

3.7.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	**N/A**

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	**Consultants technical submission does not address entire scope required**

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Kellie Kwinika	Civil Engineer
Maxwell Makhanya	Civil Technologist
Luvuyo Msizi	Civil Engineer in Training
Mzwandile Gcaleka	Auxiliary Engineering Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
April 2026	0.1	K Kwinika	Original Document
April 2026	1.0	K Kwinika	Final document

6. DEVELOPMENT TEAM

The following people were involved in the development of this document:

- Kellie Kwinika

7. ACKNOWLEDGEMENTS

- N/A

APPENDIX A: LIST OF TENDER TECHNICAL RETURNABLES

- Mandatory

Item	Title	Details
1.1	The tenderer submit CVs of key technical personnel as well as their professional registration with the Engineering Council of South Africa (ECSA) and APP (Approved Professional Person) Registration Civil: Professional Engineer (Pr. Eng.) or Professional Technologist (Pr. Tech)	Item identifies relevant qualification and experience profile to demonstrate level of experience of resource

- Qualitative

Item	Title	Details
1.1	An organogram structure: An organogram structure to be submitted covering the Key project team names, Qualifications, years of experience and roles in the project. Valid certified qualifications and CVs must be attached: Key Resource Requirements: a) Demonstrate that the proposed key personnel have worked on similar projects. CVs for key personnel to be used on this project to be submitted. b) Demonstrate that each of the proposed key resources have the following experience: 1. Professional Civil Engineer: BEng/BSc or BTech in Civil Engineering and ECSA certificate with APP(Approved professional person) 2. Registered Professional Land Surveyor	Item identifies relevant qualification (including ECSA Registration Number) and experience profile to demonstrate level of experience of resource.

	3. Geohydrologist 4. Environmental scientist	
1.2	Relevant experience (track record) – Dams Design. 1. Project name 2. Description of work performed 3. Project cost (only for scope performed) 4. Project start and end date The tenderer submits a list of traceable references which adequately proves that the tenderer has at least completed two (2) contracts successfully of similar scope in the last ten (10) years.	Experience profile to demonstrate level of experience of the tenderer.
1.3	Relevant experience Environmental Authorisation: The tenderer submits a list of traceable references which adequately proves that the tenderer has at least completed two (2) environmental authorisations successfully of similar scope in the last ten (10) years. 1. Project name 2. Description of work performed 3. Project cost (only for scope performed) 4. Project start and end date	Experience profile to demonstrate level of experience of the tenderer.
1.4	Project execution Plan As a minimum the following should be included on the plan : a) Feasibility studies b) Dam safety inspection c) Geotechnical Investigation d) Specialist studies e) Tools to be used to execute the services	Item indicates clearly the scope to be undertaken, compliance to required standards, guidelines, regulations & legislature

1.5	Professional Indemnity insurance of R5million and above must be submitted	Item identifies the credibility of the tenderer to liabilities
1.6	Submits Level 3 programme in Microsoft Projects and submitted in electronic MPS format together with a PDF copy.	Item identifies consultant project timelines